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PTO/SB/21 (09-04)

**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

9

Application Number

09/548,946

Filing Date

April 13, 2000

First Named Inventor

Estacio, Maria Cristina B.

Art Unit

2811

Examiner Name

N. Parekh

Attorney Docket Number

018865-004500US

**ENCLOSURES (Check all that apply)**☐

Fee Transmittal Form

☐

Fee Attached

☐

Amendment/Reply

☐

After Final

☐

Affidavits/declaration(s)

☐

Extension of Time Request

☐

Express Abandonment Request

☐

Information Disclosure Statement

☐

Drawing(s)

☐

Licensing-related Papers

☐

Petition

☐Petition to Convert to a  
Provisional Application☐Power of Attorney, Revocation  
Change of Correspondence Address☐

Terminal Disclaimer

☐

Request for Refund

☐

CD, Number of CD(s) \_\_\_\_\_

☐

Landscape Table on CD

☐

After Allowance Communication to TC

☐Appeal Communication to Board  
of Appeals and Interferences☐Appeal Communication to TC  
(Appeal Notice, Brief, Reply Brief)☐

Proprietary Information

☐

Status Letter

☒Other Enclosure(s) (please identify  
below):Request for Reconsideration of Request of  
Certificate of Correction; Certificate of  
Correction (PTO/SB/44); Copy of Notice of  
Allowability and Examiner's Amendment  
mailed November 5, 2004; Return Postcard☐Certified Copy of Priority  
Document(s)☐Reply to Missing Parts/ Incomplete  
Application☐Reply to Missing Parts  
under 37 CFR 1.52 or 1.53

Remarks

The Commissioner is authorized to charge any additional fees to Deposit  
Account 20-1430.

Certificate

JUL 13 2005

of Correction

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm Name

Townsend and Townsend and Crew LLP

Signature

Printed name

Patrick R. Jewik

Date

7/6/05

Reg. No.

40,456

**CERTIFICATE OF TRANSMISSION/MAILING**I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an  
envelope addressed to: Decisions & Certificates of Correction Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450  
on the date shown below.

Signature

Typed or printed name

Anna C. Kundel

Date

7/6/05

(Also Form PTO-1050)

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

**PATENT NO.** : **6,870,254 B1**  
**DATED** : **March 22, 2005**  
**INVENTOR(S)** : **Estacio et al.**

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In claim 1, column 4, line 11, kindly delete "source and gate"

In claim 1, column 4, line 13, kindly delete "that the solder bumps" and insert --that the source and gate solder bumps--

**MAILING ADDRESS OF SENDER:**

Patrick R. Jewik, Reg. No. 40,456  
Townsend and Townsend and Crew, LLP  
Two Embarcadero Center, 8<sup>th</sup> Floor  
San Francisco, CA 94111-3834  
60523910 v1

**PATENT NO. 6,870,254 B1**

Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

**JUL 18 2005**



I hereby certify that this correspondence is being mailed to: Decisions & Certificates of Correction Branch, Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450:

PATENT  
Attorney Docket No.: 018865-004500US

On: July 6, 2005

TOWNSEND and TOWNSEND and CREW LLP

By: [Signature]  
Anna C. Kundel

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

ESTACIO et al.

Patent No.: 6,870,254

Issue Date: March 22, 2005

Application No.: 09/548,946

Filed: April 13, 2000

For: SEMICONDUCTOR POWER  
PACKAGE MODULE

Customer No.: 20350

Examiner: Nitin Parekh

Technology Center/Art Unit: 6946

REQUEST FOR RECONSIDERATION  
DECISION REGARDING REQUEST FOR  
CERTIFICATE OF CORRECTION  
UNDER § 1.322

ATTN: Decisions & Certificates of Correction Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR 1.322, Applicant submitted a Request For Certificate of Correction correcting typographical errors on April 1, 2005. In response thereto, the Patent Office denied the request to correct the errors in Column 4, lines 11 and 13, and issued a Certificate of Correction for Column 4, line 25, only.

Applicant respectfully traverses the decision of the Certificate of Correction Branch and asserts that the requested corrections should be made in a Certificate of Correction. In furtherance of this assertion, applicants submits that the changes were made in an Examiner's

**JUL 18 2005**

Amendment, which was included with the Notice of Allowability for the above application. A copy is enclosed herewith. More specifically, the Examiner makes the following amendments:

*Claim 10, line 3: Delete "including solder bumps" and insert --"having solder bumps including source solder bumps and a gate solder bump"--.*

*Claim 10, line 4: Insert --"source and gate"-- between "the" and "solder".*

The following is a marked-up of version of the final submitted "currently amended" Claim 10, lines 1-4, showing the Examiner's changes made in the Examiner's Amendment:

*Claim 10. (currently amended) A chip device comprising:*


*a leadframe including source and gate connections;*

*a bumped die ~~including solder bumps~~ having solder bumps including source solder bumps and a gate solder bump on a frontside, the bumped die being attached to the leadframe such that the source and gate solder bumps contact the source and gate connections respectively;*

Therefore Column 4, lines 11 & 13 were not printed in accordance with the record. Applicant's respectfully request a Certificate of Correction for the corrections. The desired corrections are set forth on the enclosed form PTO/SB/44.

It is believed that no fee is required for this Request For Certificate of Correction as the errors are the result of typographical mistakes made by the United States Patent and Trademark Office. However, if a fee is required, the Commissioner is authorized to charge said fee to the undersigned's Deposit Account No. 20-1430.

Respectfully submitted,



Patrick R. Jewik  
Reg. No. 40,456

TOWNSEND and TOWNSEND and CREW LLP  
Two Embarcadero Center, Eighth Floor  
San Francisco, California 94111-3834  
Tel: 415-576-0200  
Fax: 415-576-0300  
Attachment  
PRJ/ack  
60523858 v1

JUL 13 2005

# **Notice of Allowability**

Application No.

09/548,946

Examiner

Nitin Parekh

Applicant(s)

ESTACIO ET AL

Art Unit

2811

**– The MAILING DATE of this communication appears on the cover sheet with the correspondence address–**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 09-07-04.
2. ☒ The allowed claim(s) is/are 10-12 and 14-18.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 23.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## **Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 23
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

*Nitin Parekh*  
Nitin Parekh  
Patent Examiner  
Technology Center 2800

**DETAILED ACTION**

***Allowable Subject Matter***

1. Claims 10-12 and 14-18 are allowed.

***Examiner's Amendment***

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

**A. Drawings:**

The following changes to the drawings have been approved by the examiner and agreed upon by applicant:

- a. The reference numerals shown in all figures are not legible.
- b. The Fig. 1, 2 and 5 showing the copper clip, the bumped die and the solder paste respectively are not clear and are not of sufficient quality for publication.

In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

- B. Claim 10, line 3: Delete "including solder bumps" and insert — "having solder bumps including source solder bumps and a gate solder bump" —.
- C. Claim 10, line 4: Insert — "source and gate" — between "the" and "solder".

- D. Claim 10, line 4: Insert — “respectively” — after “connections”.
- E. Claim 10, line 6: Delete “a v-groove” and insert — “an elongated v-groove along an edge of the lead rail”.
- F. Claim 10, line 7: Delete “in the v-groove” and insert — “in the elongated v-groove along the edge of the lead rail”.
- G. Claim 10, line 8: Delete “v-groove” and insert — “elongated v-groove”.
- H. Claim 10, line 11: Delete “solder bumps” and insert — “source solder bumps”.
- I. Claim 17, line 2: Delete “v-groove” and insert — “elongated v-groove”.

Authorization for this examiner's amendment was given in a telephone interview with Patrick Jewik on 10-27-04.

***Reasons for Allowance***

3. The following is an examiner's statement of reasons for allowance:

The references of record do not teach either singularly or in combination at least the limitations “a copper clip attached to a backside of the bumped die and having an edge; a lead rail including leads and an elongated v-groove along an edge of the lead rail, wherein the edge of the copper clip is in the elongated v-groove along the edge of the lead rail” and “apertures in the leadframe and being located under the die and being between the source solder bumps” in a leadframe device having a bumped die wherein

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drain connections between a die with a lead rail are accomplished through a soldered copper clip.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nitin Parekh whose telephone number is 571-272-1663. The examiner can normally be reached on 09:00AM-05:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9318.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

NP

10-27-04

*Nitin Parekh*  
NITIN PAREKH

PATENT EXAMINER

Technology Center 2800



SEP 13 2004

PTO/SB/08A (08-03)

Substitute for form 1-100 (Rev. 10-2000)

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of

**Complete If Known**

Application Number	09/548,946
Filing Date	April 13, 2000
First Named Inventor	Estacio, Maria Cristina B.
Art Unit	2811
Examiner Name	N. Parekh
Attorney Docket Number	018865-004500US

**U.S. PATENT DOCUMENTS+**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-5,637,918	06-10-1997	Joshi	
	AB	US-5,765,280	06-16-1998	Joshi	
	AC	US-5,789,809	08-04-1998	Joshi	
	AD	US-6,133,634	10-17-2000	Joshi	
	AE	US-6,294,403	09-25-2001	Joshi	
	AF	US 6,423,623	07-23-2002	Bencuya	
	AG	US-6,489,384	10-22-2002	Joshi	
	AH	US-6,489,878	12-03-2002	Joshi	
	AI	US-6,566,749	05-20-2003	Joshi et al.	
	AJ	US 6,617,655	09-09-2003	Estacio et al.	
	AK	US-6,627,991	09-30-2003	Joshi	
	AL	US-6,633,030	10-14-2003	Joshi	
	AM	US 6,645,791	11-11-2003	Noquill	
	AN	US 6,646,329	11-11-2003	Estacio et al.	
	AO	US 6,649,961	11-18-2003	Estacio et al.	
	AP	US-6,661,082	12-09-2003	Granada et al.	
	AQ	US-6,683,375	01-27-2004	Joshi	
	AR	US-6,696,321	02-24-2004	Joshi	
	AS	US-6,720,642	04-13-2004	Joshi et al.	
	AT	US-6,731,003	05-04-2004	Joshi et al.	
	AU	US-6,740,541	05-25-2004	Rajeev	
	AV	US-6,753,605	06-22-2004	Joshi	
	AW	US 6,762,067	07-13-2004	Quinones et al.	
	AX	US-6,777,786	08-17-2004	Estacio	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
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Examiner  
Signature

Nitin Parekh

Date  
Considered

10/28/04

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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